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9D-RG-19584 PATENT

IN THE CLAIMS:

1. (currently amended) A method for installing an ignition module for a flame burner to an electrical system, the electrical system including a junction box, a phase conductor, and a neutral conductor and a ground conductor, the burner connected to the ground conductor, the ignition module including first and second inputs and at least one a single output, said method comprising:

connecting the phase conductor to the first input of the ignition module; connecting the ground neutral conductor to the second input of the ignition module; and connecting a ground conductor between the neutral conductor and a burner; and connecting an isolation transformer between said junction box and said ignition module.

- 2. (canceled)
- 3. (currently amended) A method in accordance with Claim 1 13 wherein the transformer includes a secondary winding, said method further comprising connecting the secondary winding to the first input of the ignition module and to the ground conductor.
- 4. (original) A method in accordance with Claim 3, the transformer including a primary winding, said method further comprising connecting the primary winding to the phase conductor and the neutral conductor.
- 5. (original) A method for installing an ignition module for a gas-fired burner to an isolation transformer of an electrical system, the isolation transformer including a primary winding and a secondary winding, the electrical system including a phase conductor, a neutral



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conductor and a ground conductor, the burner connected to the ground conductor, the ignition module including first and second inputs and at least one output, said method comprising:

connecting the transformer secondary winding to the first input of the ignition module; connecting the transformer secondary winding to the ground conductor; and connecting the second input of the ignition module to the ground conductor.

- 6. (original) A method in accordance with Claim 5 further comprising connecting the primary winding to the phase conductor and the neutral conductor.
 - 7. (currently amended) An ignition system comprising:
 - a burner for producing a flame;
 - a power supply;

an electrical system comprising a ground conductor;

an ignition module comprising a first input, a second input, and an a single output, said output operatively coupled to said burner, one of said inputs coupled to said ground conductor, the other of said inputs coupled to said power supply; and

an isolation transformer connected between said power supply and said ignition module.

- 8. (canceled)
- 9. (previously amended) An ignition system in accordance with Claim 7, said isolation transformer comprising a secondary winding, said secondary winding connected to said first input of said ignition module and connected to said ground conductor.

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10. (currently amended) An ignition system in accordance with Claim 9, said transformer comprising a primary winding, said electrical system further comprising a phase conductor and a neutral conductor, said primary winding coupled to said phase conductor and to said neutral conductor.

11. (currently amended) An ignition system comprising:

a gas burner;

an AC power supply comprising a phase conductor and neutral conductor;

an electrical system comprising a ground conductor;

an isolation transformer comprising a primary winding and a secondary winding, said primary winding connected to said phase conductor and to said neutral conductor, said secondary winding comprising a phase conductor and a neutral conductor; and

an ignition module comprising a first input, a second input, and an output, said output operatively coupled to said burner electrically connected to an igniter, one of said inputs coupled to said ground conductor and said secondary winding neutral conductor, the other of said inputs coupled to said secondary winding phase conductor.

- 12. (original) An ignition system in accordance with Claim 11, said secondary winding further coupled to said ground conductor.
- 13. (newly added) A method in accordance with Claim 1, the electrical system including a junction box, said method further comprising connecting an isolation transformer between said junction box and said ignition module.